

X. RESOURCES

Commonwealth of Massachusetts. *McConnell Land Use Statistics*. 1999.

Commonwealth of Massachusetts. *State Hazard Mitigation Plan*. October 2004.
Prepared by the Massachusetts Emergency Management Agency and the
Massachusetts Department of Conservation and Recreation.

Concord Conservation Land Trust. Website www.concordland.org. Accessed March
2008.

Federal Emergency Management Agency. *Flood Insurance Rate Map, Town of Concord,
Massachusetts, Middlesex County*. June 3, 1988.

Federal Emergency Management Agency. *Flood Insurance Study, Town of Concord,
Massachusetts, Middlesex County*. June 3, 1988.

Federal Emergency Management Agency. *Mitigation Planning Workshop for Local
Governments, Student Manual*. May 2004.

Federal Emergency Management Agency. *State and Local Mitigation Planning How-to
Guide, Understanding Your Risks: Identifying Hazards and Estimating Losses*.
August 2001.

Federal Emergency Management Agency. Website www.fema.gov. Accessed March
2008.

Massachusetts Executive Office of Environmental Affairs. *Buildout Analysis for
Concord, MA*. 2000. Prepared by the Metropolitan Area Planning Council.

Massachusetts Executive Office of Environmental Affairs. *Sudbury-Assabet-Concord
River Watershed Action Plan*. June 30, 2005. Prepared by Ambient Engineering and
the SuAsCo Community Watershed Council.

Town of Concord, Massachusetts. *2006 Concord Annual Town Report*. 2006.

Town of Concord, Massachusetts. *2008 Community Preservation Plan*. September 27,
2007. Prepared by the Concord Community Preservation Committee.

Town of Concord, Massachusetts. *Comprehensive Emergency Management Plan*.

Town of Concord, Massachusetts. *Comprehensive Long Range Plan, Concord,
Massachusetts: A Vision for 2020*. March 2005. Prepared by the Comprehensive
Long Range Plan Committee.

- Town of Concord, Massachusetts. *Open Space and Recreation Plan, Concord, Massachusetts*. October 2004. Prepared by the Open Space Task Force and the Natural Resources Commission.
- Town of Concord, Massachusetts. *Personal Communication with Local Multiple Hazard Community Planning Team*. February 21 and November 29, 2007.
- Town of Concord, Massachusetts. *Recommendations for the Village Center Study: West Concord, Concord Center, Thoreau Depot*. December 10, 2007. Prepared by the Concord Village Centers Committee and the Department of Planning and Land Management.
- Town of Concord, Massachusetts. *Subdivision Rules and Regulations*. Amended through January 2005.
- Town of Concord, Massachusetts. Website www.concordnet.org. Accessed March 2008.
- Town of Concord, Massachusetts. *Zoning Bylaw*. Amended through April 2006.
- Town of Concord, Massachusetts Planning Department. *Community Development Plan 2004*. 2004. Prepared by the Metropolitan Area Planning Council, Taintor & Associates Inc., Optimal Solutions, and Linda Prosnitz.
- United States Environmental Protection Agency. *NPDES Phase II Small MS4 General Permit Annual Report*. Reporting Period March 2005 - March 2006. Prepared by the Town of Concord Department of Public Works.
- United States Census Bureau. *United States Census*. 2000.

APPENDIX A: NATURAL HAZARDS MAPS

The MAPC GIS (Geographic Information Systems) Lab produced a series of maps for each community. Some of the data came from the Northeast States Emergency Consortium (NESEC). More information on NESEC can be found at <http://www.serve.com/NESEC/>. Due to the various sources for the data and varying levels of accuracy, the identification of an area as being in one of the hazard categories must be considered as a general classification that should always be supplemented with more local knowledge. The documentation for some of the hazard maps was incomplete as well.

The map series consists of four panels with two maps each plus one map taken from the State Hazard Mitigation Plan.

Map 1.	Population Density
Map 2.	Potential Development
Map 3.	Flood Zones
Map 4.	Earthquakes and Landslides
Map 5.	Hurricanes and Tornadoes
Map 6.	Average Snowfall
Map 7.	Composite Natural Hazards
Map 8.	Hazard Areas

Map 1: Population Density – This map uses the US Census block data for 2000 and shows population density as the number of people per acre in seven categories with 60 or more people per acre representing the highest density areas.

Map 2: Potential Development – This map shows potential future developments, and critical infrastructure sites. MAPC consulted with town staff to determine areas that were likely to be developed or redeveloped in the future.

Map 3: Flood Zones – The map of flood zones used the FEMA Q3 Flood Zones as its source. For more information, refer to http://www.fema.gov/fhm/fq_q3.shtm. The definitions of the flood zones are described in more detail at http://www.fema.gov/fhm/fq_term.shtm. The flood zone map for each community also shows repetitive loss sites, critical infrastructure and municipally owned and protected open space. As defined by the Community Rating System (CRS) of the National Flood Insurance Program (NFIP), a repetitive loss property is any property, which the NFIP has paid two or more flood claims of \$1,000 or more in any given 10-year period since 1978. For more information on repetitive losses see <http://www.fema.gov/nfip/replps.shtm>.

Map 4: Earthquakes and Landslides – This information came from NESEC. For most communities, there was no data for earthquakes because only the epicenters of an earthquake are mapped.

The landslide information shows areas with either a low susceptibility or a moderate susceptibility to landslides based on mapping of geological formations. This mapping is highly general in nature. For more information on how landslide susceptibility was mapped, refer to <http://pubs.usgs.gov/pp/p1183/pp1183.html>.

Map 5: Hurricanes and Tornadoes – This map shows a number of different items. The map includes the storm tracks for both hurricanes and tropical storms. This information must be viewed in context. A storm track only shows where the eye of the storm passed through. In most cases, the effects of the wind and rain from these storms were felt in other communities even if the track was not within that community. This map also shows the location of tornadoes with a classification as to the level of damages. What appears on the map varies by community since not all communities experience the same wind-related events. These maps also show the 100 year wind speed.

Map 6: Average Snowfall – This map shows the average snowfall, repetitive loss structures and open space. It also shows storm tracks for nor'easters, if any storms tracked through the community.

Map 7: Composite Natural Hazards - This map shows four categories of composite natural hazards for areas of existing development. The hazards included in this map are 100 year wind speeds of 110 mph or higher, low and moderate landslide risk, FEMA Q3 flood zones (100 year and 500 year) and hurricane surge inundation areas. Areas with only one hazard were considered to be low hazard areas. Moderate areas have two of the hazards present. High hazard areas have three hazards present and severe hazard areas have four hazards present.

Map 8: Hazard Areas – For each community, locally identified hazard areas are overlaid on an aerial photograph dated April 2005. The critical infrastructure sites and repetitive loss sites are also shown. The source of the aerial photograph is Mass GIS.

APPENDIX B:

MEETING AGENDAS FOR:

**METRO BOSTON NORTH/WEST REGIONAL HAZARD
MITIGATION COMMUNITY PLANNING TEAM**

AND

LOCAL MULTIPLE HAZARD COMMUNITY PLANNING TEAM

DRAFT 4/15/08

APPENDIX C:
DOCUMENTATION OF THE PUBLIC MEETING

APPENDIX D:
**DOCUMENTATION OF PLAN ADOPTION BY THE BOARD OF
SELECTMEN**